

**Docket #:** S07-157

# **Slow Light for Sensing: An Invention Disclosure**

An optical sensor includes at least one optical coupler and an optical waveguide in optical communication with the at least one optical coupler. The optical waveguide is configured to receive a first optical signal from the at least one optical coupler. The first optical signal has a group velocity and a phase velocity while propagating through at least a portion of the optical waveguide, the group velocity less than the phase velocity. An interference between the first optical signal and a second optical signal is affected by perturbations to at least a portion of the optical sensor.

This patent is available for licensing through Stanford's exclusive licensee. Please contact Dennis Fortner at: [Dennis.Fortner@ngc.com](mailto:Dennis.Fortner@ngc.com) for licensing information.

## **Patents**

- Published Application: [20090059238](#)
- Published Application: [20110134432](#)
- Issued: [7,911,622 \(USA\)](#)
- Issued: [8,300,231 \(USA\)](#)

## **Innovators**

- Matthew Terrel
- Michel Digonnet
- Shanhui Fan

## **Licensing Contact**

## **Evan Elder**

Associate Director, Licensing and Strategic Alliances, Physica

[Email](#)